

CLAIMS

1. A light source comprising:

a) a planar substrate having an upper surface and a lower surface, a portion of the upper surface defining a recess having a side wall tapering outwards towards the upper surface,

b) a light emitting diode mounted in the recess of the substrate adjacent the side walls,

c) a first electrically-conductive interconnect extending between the upper and lower surfaces, the first interconnect having a terminal on the upper surface coupled to the light emitting diode and an exposed pad on the lower surface for coupling to external circuitry,

d) a second electrically-conductive interconnect extending between the upper and lower surfaces, the second interconnect having a terminal on the upper surface coupled to the light emitting diode and a conductive pad on the lower surface for coupling to external circuitry, and

e) a transparent encapsulant material bonded to the first surface of the substrate to encapsulate the light emitting diode, the material being molded to form an ellipsoidal dome over the light emitting diode.

2. A light source as claimed in claim 1, wherein the side wall of the recess is plated with a metallic layer presenting a silvered reflective surface to the light emitting diode.

3. A light source as claimed in claim 2, wherein the metallic layer forms the terminal of the first interconnect.

4. A light source as claimed in claim 1, wherein the substrate defines first and second vias extending between the upper and lower surfaces, a portion of each of the first and second interconnects extending through the first and second vias respectively.

5. A light source as claimed in claim 1, wherein each of the conductive pads of the first and second interconnects includes a gold plated layer for electrically coupling to external circuitry.

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